**Processor: Raspberry Pi Zero 2W**

Notes:

* Operating System is legacy Buster utilizing picamera libraries.
* Python 3 used throughout.

**Camera board: Raspberry Pi Camera Module v2**

Notes:

* Camera sensor relaced with wide angle unit - IMX219 Camera Module, 160 degree FoV.
* Wide angle required due to angle of cone. Taller cone would allow longer focal length and create less image distortion.

**LISIPAROI White LED Ring / Flash**

Notes:

* Powered from Raspberry Pi 5v pin
* Switched on via Raspberry Pi I/O only during snapshots

**DS3231 High Precision RTC Clock**

Notes:

* Optional if NTP time server access is reliable at Wi-Fi startup
* I2C interface.
* Super capacitor (no battery required).
* If system time is incorrect mail server may reject email report uploads.

**Micro-USB OTG Adapter for Raspberry Pi Zero**

Notes:

* Used to connect external USB devices. E.g. Keyboard and mouse for commissioning, or Wi-Fi dongle for better connectivity during operation.

**Panda Wireless PAU06 300Mbps Wireless N USB Adapter - w/High Gain Antenna**

Notes:

* Optional as Pi Zero 2W has Wi-Fi built in.
* No drivers required.

**BME280 Temperature and humidity sensor**

Notes:

* I2C interface.
* Powered from Raspberry Pi 3.3v pin.

**BH1750FVI light sensor module**

Notes:

* I2C interface.
* Powered from Raspberry Pi 3.3v pin.